# Owner's Manual

## METAL CORE
DELUXE

NUX

www.nuxefx.com

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**Accuracy**
Whilst every effort has been made to ensure the accuracy and content of this manual, Cherub Technology Co. makes no representations or warranties regarding the contents.

## WARNING!-IMPORTANT SAFETY INSTRUCTIONS BEFORE CONNECTING, READ INSTRUCTIONS

**WARNING:** To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

**CAUTION:** To reduce the risk of fire or electric shock, do not remove screws. No user-serviceable parts inside. Refer servicing to qualified service personnel.

**CAUTION:** This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The lightning symbol within a triangle means "electrical caution!" It indicates the presence of information about operating voltage and potential risks of electrical shock.

The exclamation point within a triangle means "caution!" Please read the information next to all caution signs.

1. Use only the supplied power supply or power cord. If you are not sure of the type of power available, consult your dealer or local power company.
2. Do not place near heat sources, such as radiators, heat registers, or appliances which produce heat.
3. Guard against objects or liquids entering the enclosure.
4. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to qualified service personnel.
5. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.
6. The power supply cord should be unplugged when the unit is to be unused for long periods of time.
7. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and at the point where they exit from the apparatus.
8. Prolonged listening at high volume levels may cause irreparable hearing loss and/or damage. Always be sure to practice "safe listening".

*Follow all instructions and heed all warnings*
***KEEP THESE INSTRUCTIONS!***

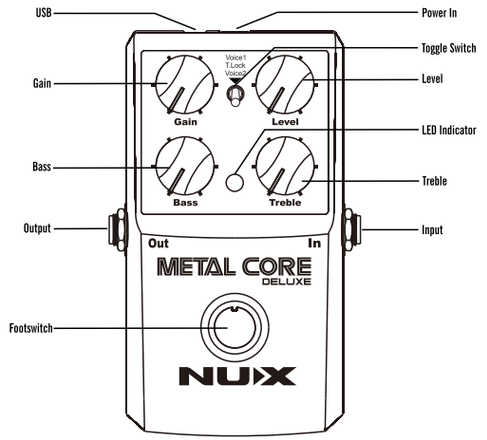
Thank you for selecting the NUX products! With years of research, we are proud to launch the new generation of the NUX pedals - The Core Deluxe Series! Based on the popular NUX Core pedals, the Deluxe series pedals have upgraded hardware circuits and new algorithm (digital models only) that ensure ultra-low noise and great tones!

METAL CORE DELUXE is a digital distortion pedal that offers you ultimate metal guitar tone! The new algorithm with NUX original TSAC Technology nails the tone from extremely hard pushed tube amplifiers. With its two metal voices and sensitive EQ, you are able to get the tone for old school metal or modern metal with tight low-end. Its built-in Noise Reduction keeps the pedal quiet even at very high gain setting.

## Features

- Two Voices of Metal Distortion
- 2-Band Equalizer
- Built-in Noise Reduction
- Upgraded Hardware for Ultra-Low Noise
- 32bit DSP, Hi Performance 24bit 44.1kHz AD/DA Converter
- Tone Lock Function to Freeze Settings and Save One Preset
- True Bypass
- Powered by 9V Battery or Optional 9V Adaptor with Negative Tip

## Product Description




**Gain Knob**
Set the distortion amount.

**Level Knob**
Set the output level.

**Bass Knob**
Set the bass frequency.

**Treble Knob**
Set the treble frequency.

**Toggle Switch**
Switch the T.LOCK function or two metal distortion voices.

**Footswitch**
Press the footswitch to engage or bypass the effect.

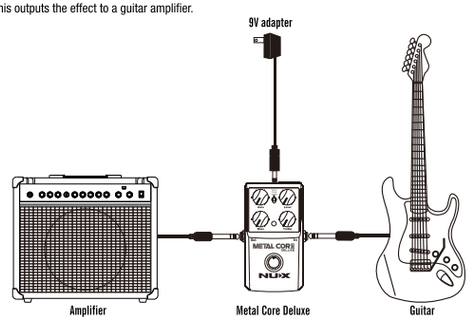
## Connection

**Power In**
Connect a 9V (negative tip) adaptor. Optional NUX ACD-006A is recommended.
**NOTE:** Using other adaptor may cause damage or noise.

**USB**
For Firmware Updating.

**Input**
This is the input jack for plugging into the guitar.
**NOTE:** In jack is also the power trigger, so make sure the In jack is always connected to keep the power on.

**Output**
This outputs the effect to a guitar amplifier.




## Using Effects

**Tone Setting**
- Start by setting the Gain, Bass, Treble knobs to the middle position, and increase the Level gradually from zero until you get proper volume.
- Adjust the Gain, Bass, and Treble to find the tone you like.
- Experiment on the two voices using the 3-way toggle switch.

**Noise Reduction**
Although the built-in Noise Reduction has been factory programmed to reduce normal noise due to high gain noise or single coil hum, it still allows user to adjust the threshold of the Noise Reduction when necessary.
While holding down the footswitch, turn the Gain knob clockwise to increase the threshold. Turn it all the way down will shut off the Noise Reduction.

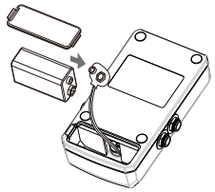
## Tone Lock Function

**T. LOCK**
Set the 3-way toggle switch to T. Lock position can temporarily freeze the current settings of the knobs. This helps to keep you settings from being changed by accident on stage.

**Save and Recall Preset**
METAL CORE DELUXE allows user to save and recall one preset. After you set the effect, while holding down the footswitch, set the toggle switch to T. Lock position to save the current effect as the preset. To recall this preset, set the toggle switch to T. Lock position before you power the pedal (by plugging in the adaptor and the In jack).
**NOTE:** Under T. Lock status or Preset mode, when a knob is turned to a position that matches the saved parameter, the LED will blink once to remind you the position.

## About Battery

A 9V battery is included in the package in purpose of testing. If it is powered by battery, change a new battery when the LED goes dim. To save battery life, unplug the cable from the In jack when it is not in use. A high quality pedal power adaptor (optional NUX ACD-006A) is strongly recommended.



## Troubleshooting

**Power Does Not Turn On**
- Check if the adaptor is connected correctly and securely.
- If it is powered by battery, try a fresh battery.
- Check if the In jack is plugged in.

**No Sound**
- Try to plug the instrument directly into this pedal and output this pedal directly to the amp, and make sure the volume of the instrument and the amplifier is turned on.
- Check if all the cable connections are good and secure.

**Noise Problem**
- Make sure the power adaptor is with correct specifications (DC 9V, minimum 300mA, ⊙-●-⊖ ). We strongly recommend the NUX ACD-006A adaptor. Using other adaptor may cause noise or malfunction.
- Setting the Gain too high will generate more noise. Try to lower down the Gain. Using guitar with single coil pickups may have more noise.
- Try to turn up the depth of the built-in Noise Reduction.
  **NOTE:** Turning the depth of the Noise Reduction too high may kill the natural sustain of the note.

**Poor Sound Quality**
- Make sure all the cables are securely plugged into the pedal, guitar and the playback device, i.e. amplifiers.
- Make sure the power adaptor is with the correct specifications (DC 9V, minimum 300mA, ⊙-●-⊖ ).
- If it is powered by battery, try a new battery. For longest battery life, we suggest new, high quality ALKALINE battery.

**Effects are not responding to knob settings**
- Check if you are under Preset mode. Try to set the toggle switch to Voice 1 or Voice 2 position, turn off the power and turn on again.
- Check if the toggle switch is in T.Lock position. If yes, set it to Voice 1 or Voice 2 position.

## Specifications

| | |
|---|---|
| Effects: | 2 voices of metal distortion |
| Preset: | 1 |
| Nominal Input Level: | -20dBu (GUITAR)<br>+3dBu (Max.) |
| Input Impedance: | 1MΩ |
| Nominal Out put Level: | -20dBu (GUITAR)<br>+3dBu (Max.) |
| Output Impedance: | 1kΩ |
| Residual Noise Level: | -97dBu |
| Current Draw: | 42mA (9 V) |
| Power Supply: | 9V Battery, or AC adaptor to DC 9V ⊙-●-⊖ (optional NUX ACD-006A) |
| Dimensions: | 122mm (L) x 72mm (W) x 47mm (H) |
| Weight: | 270g |

*Specification may change without notice.

## Precautions

- Environment:
  1.Do NOT use the METAL CORE DELUXE in high temperature, or high humidity, or subzero environments.
  2.Do NOT use the METAL CORE DELUXE in the direct sunlight.
- Please do NOT disassemble the METAL CORE DELUXE by yourself.
- Please keep this manual for future reference.

## Accessories

- One 9V battery (only for testing purpose)
- Owner's manual

### THE FCC REGULATION WARNING (for U.S.A.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### CE mark for European Harmonized Standards

CE Mark which is attached to our company's products of Battery mains the product is in fully conformity with the harmonized standard(s) EN 61000-6-3:2007+A1:2011 & EN 61000-6-1:2007 Under the Council Directive 2004/108/ EC on Electromagnetic Compatibility.

RoHS

FC CE

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